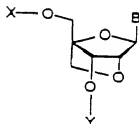


CLAIMS

- Subt
a5
1. A nucleoside analogue of the following general formula (I)

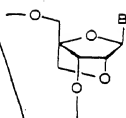


(I)

where B is a pyrimidine or purine nucleic acid base, or an analogue thereof, and X and Y are identical or different, and each represent a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aralkyl group, an aryl group, an acyl group, or a silyl group,

or an amidite derivative thereof.

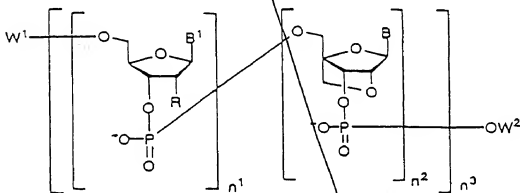
2. A nucleoside analogue as claimed in claim 1, wherein X and Y each represent a hydrogen atom.
3. A mononucleoside amidite derivative as claimed in claim 1, wherein X is 4,4-dimethoxytrityl (DMTr), and Y is a 2-cyanoethoxy(diisopropylamino)phosphino group (amidite group).
4. An oligonucleotide or polynucleotide analogue having one or more structures of the general formula (Ia)



(Ia)

where B is a pyrimidine or purine nucleic acid base, or an analogue thereof.

5. An oligonucleotide or polynucleotide analogue of the general formula (II)



(II)

where B¹ and B are identical or different, and each represent a pyrimidine or purine nucleic acid base, or an analogue thereof, R is a hydrogen atom, a hydroxyl group, a halogen atom, or an alkoxy group, W¹ and W² are identical or different, and each represent a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aralkyl group, an aryl group, an acyl group, a silyl group, a phosphoric acid residue, a naturally

occurring nucleoside or a synthetic nucleoside bound via a phosphodiester bond, or an oligonucleotide or polynucleotide containing the nucleoside, n^1 's or n^2 's are identical or different, and each denote an integer of 0 to 50, provided that n^1 's or n^2 's are not zero at the same time, and that not all of n^2 's are zero at the same time, n^3 denotes an integer of 1 to 50, provided that when n^1 and/or n^2 are or is 2 or more, B^1 and B need not be identical, and R's need not be identical.

00380638-090799